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Subject: Environmental Science Status Report - June
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Columbia Falls Site Investigation (ERM)

Gene Mancini represented ARCO during an industrial site investigation conducted by EPA contractors at a previously-owned aluminum reduction facility in Montana. Surface water, groundwater, soil and sediment/sludge samples were split with the contractor for verification testing. The analytical data generated from these samples will determine whether or not a HRS score will be developed for this site.

Cherry Point Refinery Naphtha Release (GL)

A safety valve on a catalytic cracker in the refinery opened, releasing approximately 63,000 lb. of naphtha. Phil Westin, the air quality individual at the Products Co. was out of town so George Lauer performed the air quality modeling to assess possible danger to the local population. Pat Rand was asked to go to Cherry Point to inspect vegetation for damage. The initial modeling was performed to assist Pat by determining the areal extent of her survey. A complete worst case scenario was then run to estimate the maximum exposure ascribable to the release. The results indicate that there was no significant exposure. A report describing the results was submitted to the refinery.

RCRA Questionnaire (ERM)

Gene Mancini submitted an EPA-required questionnaire regarding insurance for ARCO's RCRA facilities. Corporate Insurance and Legal provided input which served as the basis for responding to the questionnaire.

Greenland Exploration (JLS)

Pat Rand (SARA Assoc.), Bruce Lanni (AAI) and June Siva met to discuss this summer's environmental work in Greenland. Danish environmental agencies will be conducting several environmental studies. Pat Rand will do an assessment of environmental impacts from winter seismic operations and will accompany the Danes during their survey of this area. An overview of environmental aspects of the Greenland project is also under consideration. An abstract on the cleanup of a fuel oil spill was submitted to the 89 Oil Spill Conference by the contractor who directed the cleanup.

AOGC Visit (GL)

George Lauer visited AOGC headquarters in Dallas and met with the Environmental staff. The principal areas of concern voiced were associated with the new requirements being placed by the

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EPA on areas which are not in attainment of the National Ambient Air Quality Standards. It is feared that all sources of oxides of nitrogen (NOX) will be required to retrofit with catalytic converters. As AOGC operates a myriad of such sources in the field, they fear the economic impact of such a requirement, both in terms of capital required and in terms of operating costs.

There was also some concern whether I would push for a uniform model for SARA Title III work. After some discussions we agreed that the EAHAP model which they purchased was principally for design and would not be particularly useful for the Title III work.

In order to obtain an "education" George was taken to the Longview field in east Texas. He had an opportunity to observe the type of equipment used in both oil and gas production as well as to see a gas plant.

Prudhoe Causeway Impact Assessment (DWC)

ARCO Alaska, Inc., has requested assistance in identifying physical and biological scientists as potential contractors to review fisheries, water circulation, sediment transport, and other information related to fisheries coastal processes in the Prudhoe Bay area. Dee Chamberlain identified, visited and interviewed a number of people and submitted this information to AAI.

ARCO Alaska Environmental Studies (JLS)

A proposal by the Arctic Environmental Information & Data Center will be funded through our department. AEIDC will catalog approximately 300 studies on arctic biology, glaciology, oceanography and engineering and put them into their computer database. They will also make microfiche copies of each report and keep these in their library. Copies of the reports will be available on request for the cost of making a paper copy from the microfiche. This project will make these "gray literature" reports available to the scientific community and should help the ANWR cause.

Pipeline Spill Drill (DWC)

Environmental Sciences was alerted by Four Corners Pipeline during a simulated gasoline spill. Dee Chamberlain received the call for notification of the spill drill that had a scenario of gasoline going into the Los Angeles River, fire, and a subsequent simulated Environmental Sciences onsite response during cleanup.

Marine Environmental Training (DWC)

Dee Chamberlain provided ARCO Marine Inc., with audio-visual and other types of environmental information as part of an environmental training program AMI is developing for ship crews.

AOGC Review (ERM)

Gene Mancini participated in an AOGC HS&E Review training program conducted in Dallas in preparation for a July review of the Cook Inlet Unit (AAI). The program was detailed and

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thorough in training the review team in interviewing skills, report writing and "teamwork dynamics."

Oregon Ocean Management Policy (DWC)

Dee Chamberlain attended two meetings of the Oregon Governor's Task Force on ocean resource management planning. Both meetings concerned preparation of the Oregon Interim Ocean Resources Management Plan which will go to the legislature in July 1988. Chamberlain developed an issue paper on offshore petroleum development and assisted in a second on user conflicts. Both will be appended to the plan.

EPA Wetlands Forum (JLS)

June Siva reviewed the draft final report of the EPA Wetlands Forum. While the body of the report has improved, the major sticking point for industry is the stated interim goal of no net loss of wetlands. This is not a realistic goal in the short-term, but would certainly be an easy "formula" for regulators. The other major deficiency in the report is a lack of emphasis on research. The assumption is that we can start restoring and creating wetlands right away. In reality, much research is needed before these programs are likely to be effective in the long term. This, combined with the "no net loss" goal could mean regulatory requirements to "create" an acre of wetlands for every acre destroyed. This could be a great waste of resources and not accomplish the desired goal if not based on sound science.

Western Oil and Gas Association - San Joaquin Valley Air Study (GL)

George Lauer met with Mike Wang of WOGA, Al Harita of Union, Steve Ziman of Chevron, Bill Hafker of Exxon and Phil Roth, special air quality consultant to WOGA regarding ARCO participation in the forthcoming San Joaquin Valley Air Quality Study. Chevron is putting up over \$1,000,000 in support of the study; Steve Ziman indicated that he cannot represent WOGA on the study as Chevron's commitment is too large (he will represent the interests of Chevron on the steering committee). After some discussion, George was asked to be the WOGA representative, replacing Steve. Data from the study will be the principal basis for development and calibration of new photochemical simulation models.

Natural Resource Damage Assessment (DWC)

The API Natural Resource Damage Assessment Task Force is preparing comments on the CERCLA Section 301 (c) Type A and Type B damage assessment procedures for the regulatory review that is required every two years. Dee Chamberlain assisted the Task Force in this review and in choosing a contractor to review damage assessments done for freshwater spills. Also, a new version of the Type A Model is being evaluated and comments prepared on a proposed freshwater Type A model.

Cancer in Fish (DWC)

Dee Chamberlain attended a meeting of the API Bioavailability/Fish Neoplasia Task Force which is addressing fish-related cancer studies possibly applicable to human health. Four projects in

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different state completion include a "Atlas" of Neoplasia and other disorders, and the potential for transfer of pollutants in fish.

Martinez Oil Spill (JLS)

It appears from newspaper accounts that spill response has just taken a giant step backwards. Evidently, in response to pressure (perhaps from state agencies and local officials) Shell is being requested use cleanup methods that will increase the long-term environmental impact on the contaminated marsh. The latest is a proposal to drain the marsh. There is no reason to believe there is any oil on bottom sediments, and this is an extreme measure, to say the least! All literature on the subject and expert consultants seem to have been ignored. The "damage assessment" done by the state should be very interesting.

ARCO Legal Environmental Meeting (GL, DWC)

George Lauer attended both days of the legal environmental conference and participated as a panelist on the SARA Title III presentation. Dee Chamberlain attended the first day of the conference.

1989 Oil Spill Conference (DWC)

Dee Chamberlain attended a meeting of the Program Committee for the 1989 Oil Spill Conference and assisted in reviewing the one hundred and sixty-one abstracts that have been submitted. Preliminary selections for the conference next February were made. Finished papers will be review at a later date.

Arctic Marine Oil Spill Program (DWC)

At the request of AAI, Dee Chamberlain attended the Arctic and Marine Oil Spill Program technical seminar. Papers were presented on oil spills in the ocean and cold regions. A paper on the comparison of offshore spill response options and one on dispersant effectiveness were at least two that should be noted by industry.

Newsletter (JLS)

The June newsletter was published ahead of schedule, using FullWrite Professional software for the first time. No more cutting and pasting! The newsletter featured a new column on safety and health news that we hope will be a regular feature.

National Science Board (JLS)

June Siva participated in the annual long-range planning meeting of the NSB. It was determined that the Board should take on a greater leadership role in national science policy issues.

Vacation (JLS)

I took a week of vacation in Flagstaff, AZ helping my brother find a home. 154-00035